

OIPE

RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/032,697

TIME: 15:34:52

Input Set : A:\18136-1055 US.ST25.txt

Output Set: N:\CRF3\01152002\J032697.raw

ENTERED

3 <110> APPLICANT: Sangameswaran, Lakshmi
 5 <120> TITLE OF INVENTION: Human Pheromone Receptors
 7 <130> FILE REFERENCE: 18136-1055
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/032,697
 C--> 9 <141> CURRENT FILING DATE: 2001-12-27
 9 <160> NUMBER OF SEQ ID NOS: 12
 11 <170> SOFTWARE: PatentIn version 3.0
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 1059
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Homo sapiens
 18 <400> SEQUENCE: 1
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 21 ttttattcta ctgattcttc agacctcaat gaaaatcaac atcccctaga ttttgatgaa 120
 23 atggcttttg gaaaagtaaa atcagggatt agcttctca ttcagactgg agttgggac 180
 25 ctgggaaatt ctttctcct ttgtttttat aacttaattt tgttcactgg acacaagctg 240
 27 agaccacagg acttgattct cagccaactg gccttggtca actccatggt cttttctttt 300
 29 aaagggatac ctacagacaat ggcagctttt ggattgaaat atttgctgaa tgacactgga 360
 31 tgtaagtttg tcttttatta tcacagggtg ggcacaagag tttccctcag caccatctgc 420
 33 cttctcaatg gattccaagc cattaagctc aaccccagta tatgcagggt gatggagatc 480
 35 aagattagat cccaaggtt tattgacttc tgttgtctcc tctgctgggc ccccatgctc 540
 37 ttgatgaatg catctgttct tctattagtg aatggcccac tgaatagcaa aaacagtagt 600
 39 gcaaaaaaca attatggata ctgttcttac aaagcatcaa agagatttag ctcattacat 660
 41 gcagtcttat attttccccc tgattttatg agtttgggct tcatggtctg ggccagtggc 720
 43 tccatggtct tcttctcta cagacacaag cagcaagtcc aacacaatca cagcaacaga 780
 45 ctctcctgca gacctccca ggaagccaga gccacaca ccatcatggt cctggtgagc 840
 47 tccttttttg tttctattc agtccatagt tttctgacaa tttggacaac ttagttgca 900
 49 aaccaggcc agtggatagt gaccaactct gtgttggtcg cctcatgttt cccagcagc 960
 51 agcccttttg tctcatcat gagtgatact catatctctc agttctgttt tgctgcagg 1020
 53 acaaggaaaa cactctttcc taatctggtt gtcatgcc 1059
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 353
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Homo sapiens
 61 <400> SEQUENCE: 2
 63 Met Val Gly Asp Thr Leu Lys Leu Leu Ser Pro Leu Met Thr Arg Tyr
 64 1 5 10 15
 66 Phe Phe Leu Leu Phe Tyr Ser Thr Asp Ser Ser Asp Leu Asn Glu Asn
 67 20 25 30
 69 Gln His Pro Leu Asp Phe Asp Glu Met Ala Phe Gly Lys Val Lys Ser
 70 35 40 45
 72 Gly Ile Ser Phe Leu Ile Gln Thr Gly Val Gly Ile Leu Gly Asn Ser
 73 50 55 60
 75 Phe Leu Leu Cys Phe Tyr Asn Leu Ile Leu Phe Thr Gly His Lys Leu
 76 65 70 75 80
 78 Arg Pro Thr Asp Leu Ile Leu Ser Gln Leu Ala Leu Ala Asn Ser Met
 79 85 90 95

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81 Val Leu Phe Phe Lys Gly Ile Pro Gln Thr Met Ala Ala Phe Gly Leu
82           100           105           110
84 Lys Tyr Leu Leu Asn Asp Thr Gly Cys Lys Phe Val Phe Tyr Tyr His
85           115           120           125
87 Arg Val Gly Thr Arg Val Ser Leu Ser Thr Ile Cys Leu Leu Asn Gly
88           130           135           140
90 Phe Gln Ala Ile Lys Leu Asn Pro Ser Ile Cys Arg Trp Met Glu Ile
91 145           150           155           160
93 Lys Ile Arg Ser Pro Arg Phe Ile Asp Phe Cys Cys Leu Leu Cys Trp
94           165           170           175
96 Ala Pro His Val Leu Met Asn Ala Ser Val Leu Leu Leu Val Asn Gly
97           180           185           190
99 Pro Leu Asn Ser Lys Asn Ser Ser Ala Lys Asn Asn Tyr Gly Tyr Cys
100          195          200          205
102 Ser Tyr Lys Ala Ser Lys Arg Phe Ser Ser Leu His Ala Val Leu Tyr
103          210          215          220
105 Phe Ser Pro Asp Phe Met Ser Leu Gly Phe Met Val Trp Ala Ser Gly
106 225          230          235          240
108 Ser Met Val Phe Phe Leu Tyr Arg His Lys Gln Gln Val Gln His Asn
109          245          250          255
111 His Ser Asn Arg Leu Ser Cys Arg Pro Ser Gln Glu Ala Arg Ala Thr
112          260          265          270
114 His Thr Ile Met Val Leu Val Ser Ser Phe Phe Val Phe Tyr Ser Val
115          275          280          285
117 His Ser Phe Leu Thr Ile Trp Thr Thr Val Val Ala Asn Pro Gly Gln
118          290          295          300
120 Trp Ile Val Thr Asn Ser Val Leu Val Ala Ser Cys Phe Pro Ala Arg
121 305          310          315          320
123 Ser Pro Phe Val Leu Ile Met Ser Asp Thr His Ile Ser Gln Phe Cys
124          325          330          335
126 Phe Ala Cys Arg Thr Arg Lys Thr Leu Phe Pro Asn Leu Val Val Met
127          340          345          350
129 Pro

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132 <210> SEQ ID NO: 3

133 <211> LENGTH: 903

134 <212> TYPE: DNA

135 <213> ORGANISM: Homo sapiens

137 <400> SEQUENCE: 3

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138 atggcctccc ggtatgtggc agtgggaatg atcttatcac agaccgtggt gggagtcctg      60
140 gggagcttct ctgttcttct ccattatctc tccttttact gcactgggtg caggttaagg      120
142 tccacagatt tgattgttaa gcacctgatt gtagccaact tcttagctct ccgctgtaaa      180
144 ggagtcctccc agacaatggc agcttttggg gttagatatt ttctcaatgc tcttgggtgc      240
146 aaacttgttt tctatctcca tagagtgggc aggggagtgt ccattggcac cacctgcctc      300
148 ttgagtgtct tccaggtgat cacggtcagc tccaggaaat ccaggtgggc aaaacttaaa      360
150 gagaaagccc ccaagcatgt tggtttttct gttctcctgt gctggatcgt gtgcatgttg      420
152 gtaaacaatca tctttcccat gtatgtgact ggcaaatgga actacacaaa catcacagtg      480
154 aacgaggatt tgggatactg ttctggggga ggcaacaaca aaatcgaca gacactgcgt      540
156 gcaatgttgt tatcattccc tgatgtgttg tgtctggggc tcatgctctg ggtcagcagc      600
158 tccatggttt gcatactgca caggcacaag cagcgggtcc agcacattga taggagcaat      660

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160 ctctccccca gagcctcccc agagaacaga gctacgcaga gcatacctcat cctggtgagc 720
162 accttttgtgt cttcttacac tctctcctgc cttttccaag tttgtatggc tcttttgat 780
164 aatcccaata gtttactggg gaacacttca gccttaatga gtgtatgttt cccaactctc 840
166 agcccctttg ttctcatgag ctgtgacccc agtgatataca ggttttgttt tgccctggaaa 900
168 aga 903
171 <210> SEQ ID NO: 4
172 <211> LENGTH: 301
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 4
178 Met Ala Ser Arg Tyr Val Ala Val Gly Met Ile Leu Ser Gln Thr Val
179 1 5 10 15
181 Val Gly Val Leu Gly Ser Phe Ser Val Leu Leu His Tyr Leu Ser Phe
182 20 25 30
184 Tyr Cys Thr Gly Cys Arg Leu Arg Ser Thr Asp Leu Ile Val Lys His
185 35 40 45
187 Leu Ile Val Ala Asn Phe Leu Ala Leu Arg Cys Lys Gly Val Pro Gln
188 50 55 60
190 Thr Met Ala Ala Phe Gly Val Arg Tyr Phe Leu Asn Ala Leu Gly Cys
191 65 70 75 80
193 Lys Leu Val Phe Tyr Leu His Arg Val Gly Arg Gly Val Ser Ile Gly
194 85 90 95
196 Thr Thr Cys Leu Leu Ser Val Phe Gln Val Ile Thr Val Ser Ser Arg
197 100 105 110
199 Lys Ser Arg Trp Ala Lys Leu Lys Glu Lys Ala Pro Lys His Val Gly
200 115 120 125
202 Phe Ser Val Leu Leu Cys Trp Ile Val Cys Met Leu Val Asn Ile Ile
203 130 135 140
205 Phe Pro Met Tyr Val Thr Gly Lys Trp Asn Tyr Thr Asn Ile Thr Val
206 145 150 155 160
208 Asn Glu Asp Leu Gly Tyr Cys Ser Gly Gly Gly Asn Asn Lys Ile Ala
209 165 170 175
211 Gln Thr Leu Arg Ala Met Leu Leu Ser Phe Pro Asp Val Leu Cys Leu
212 180 185 190
214 Gly Leu Met Leu Trp Val Ser Ser Ser Met Val Cys Ile Leu His Arg
215 195 200 205
217 His Lys Gln Arg Val Gln His Ile Asp Arg Ser Asn Leu Ser Pro Arg
218 210 215 220
220 Ala Ser Pro Glu Asn Arg Ala Thr Gln Ser Ile Leu Ile Leu Val Ser
221 225 230 235 240
223 Thr Phe Val Ser Ser Tyr Thr Leu Ser Cys Leu Phe Gln Val Cys Met
224 245 250 255
226 Ala Leu Leu Asp Asn Pro Asn Ser Leu Leu Val Asn Thr Ser Ala Leu
227 260 265 270
229 Met Ser Val Cys Phe Pro Thr Leu Ser Pro Phe Val Leu Met Ser Cys
230 275 280 285
232 Asp Pro Ser Val Tyr Arg Phe Cys Phe Ala Trp Lys Arg
233 290 295 300
235 <210> SEQ ID NO: 5

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236 <211> LENGTH: 36
237 <212> TYPE: DNA
C--> 238 <213> ORGANISM: Artificial
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Primer used for amplification and cloning.
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (1)..(36)
246 <223> OTHER INFORMATION: 5' PCR primer for hv3R1
249 <400> SEQUENCE: 5
250 gccaccatgg ttggagacac attaaaactt ctgtct 36
253 <210> SEQ ID NO: 6
254 <211> LENGTH: 26
255 <212> TYPE: DNA
C--> 256 <213> ORGANISM: Artificial
258 <220> FEATURE:
259 <223> OTHER INFORMATION: Primer used for amplification and cloning.
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (1)..(26)
264 <223> OTHER INFORMATION: 3' PCR primer for hv3R1
267 <400> SEQUENCE: 6
268 tggcatgaca accagattag gaaaga 26
271 <210> SEQ ID NO: 7
272 <211> LENGTH: 26
273 <212> TYPE: DNA
C--> 274 <213> ORGANISM: Artificial
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Primer used for amplification and cloning.
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <222> LOCATION: (1)..(26)
282 <223> OTHER INFORMATION: 5' PCR primer for hv3R8
285 <400> SEQUENCE: 7
286 gccaccatgg cctcccggta tgtggc 26
289 <210> SEQ ID NO: 8
290 <211> LENGTH: 25
291 <212> TYPE: DNA
C--> 292 <213> ORGANISM: Artificial
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Primer used for amplification and cloning.
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (1)..(25)
300 <223> OTHER INFORMATION: 3' PCR primer for hv3R8
303 <400> SEQUENCE: 8
304 tcttttccag gcaaaacaaa acctg 25
307 <210> SEQ ID NO: 9
308 <211> LENGTH: 28

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309 <212> TYPE: DNA
C--> 310 <213> ORGANISM: Artificial
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Primer used for expression profiling.
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (1)..(28)
318 <223> OTHER INFORMATION: 5' Primer for hv3R1
321 <400> SEQUENCE: 9
322 tcttcctcta cagacacaag cagcaagt 28
325 <210> SEQ ID NO: 10
326 <211> LENGTH: 36
327 <212> TYPE: DNA
C--> 328 <213> ORGANISM: Artificial
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Primer used for expression profiling.
333 <220> FEATURE:
334 <221> NAME/KEY: misc_feature
335 <222> LOCATION: (1)..(36)
336 <223> OTHER INFORMATION: 3' Primer for hv3R1
339 <400> SEQUENCE: 10
340 ggcattgacaa ccagattagg aaagagtgtt ttcctt 36
343 <210> SEQ ID NO: 11
344 <211> LENGTH: 32
345 <212> TYPE: DNA
C--> 346 <213> ORGANISM: Artificial
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Primer used for expression profiling.
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (1)..(32)
354 <223> OTHER INFORMATION: 5' Primer for hv3R8
357 <400> SEQUENCE: 11
358 tggttatcatt ccctgatgtg ttgtgtctgg gg 32
361 <210> SEQ ID NO: 12
362 <211> LENGTH: 33
363 <212> TYPE: DNA
C--> 364 <213> ORGANISM: Artificial
366 <220> FEATURE:
367 <223> OTHER INFORMATION: Primer used for expression profiling.
369 <220> FEATURE:
370 <221> NAME/KEY: misc_feature
371 <222> LOCATION: (1)..(33)
372 <223> OTHER INFORMATION: 3' Primer for hv3R8
375 <400> SEQUENCE: 12
376 tccaggcaaa acaaaacctg tatacactgg ggt 33

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,697

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Input Set : A:\18136-1055 US.ST25.txt

Output Set: N:\CRF3\01152002\J032697.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:238 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:256 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:274 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:292 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:310 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:328 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:346 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:364 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12